California Environmental Protection Agency

OB Air Resources Board

MAZDA MOTOR CORPORATION

Executive Order: A-016-0438

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2, and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: The following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					TEST GR	OUP IN	FORMAT	ION				
MODE		EST G	ROUP	VEHICLE CLASS(ES) FUEL CATEGORY					FU	EL TYPE		
2017	нт	KXV02	. OCDA		PC		DED		SINGLE FUEL	GASO		
	USEFUL	LIFE	(miles)	V	EHICLE EMIS	SION C	ATEGOR	Y	INTERIM / IN	TERMEDIA	TE IN-USE STD	
EXH	/ORVR		EVAP		FTP		SFTP		FTP		SFTP	
15	0000		150000	LEV	3 SULEV30	LEV	3 COMPC	SITE	*		*	
SPE	CIAL FE	ATUR		AUST EMIS	SION CONTRO	OL		OBD ST	ATUS	ENGINE	DISPLACEMENT (L)	
1	5	TWC, V	WU-TWC,	DFI, HO2S,	WR-HO2S		FUI	L	*			
*				*			PART	TAL	ALL MODELS	ODELS 2.0		
*				*			PARTIA		*			
			EV	APORATIVE	& REFUELING	G (EVA	P/ORVR)	FAMILY	INFORMATIO	V		
EVA	P/ORV	R FAN	MILY	EVAPORAT	IVE STD CATE	GORY			SION STD CLASS	SPECIA	L FEATURES	
F	TKXR0:	L15GCI	2	LEV 3 OI	PTION2 WITH	FEL		P	С		HCT	
F	TKXR0	L15GDI	,	LEV 3 OI	PTION2 WITH	FEL		P	С		HCT	
					EMISSION (CREDIT	INFORM	ATION				
	A	LLOW	ANCE FO	R TEST GR	OUP		IMOG CR			REDIT FOR	OPTIONAL EXH STD FOR WORK	
BASE	ELINE P	ZEV	AT	PZEV	TZEV	NO	N-PZEV	ZERO-E	VAP D	DOR		
ALI	L MODE	LS		*	*		1	Ŋ		N	N	
				NM	OG AND FLEE	TAVE	RAGE IN	FORMAT	TION			
NMOG RAF	CH4 RAF	NMC	FTP G/NMHC ATIO	HCHO/NMH RATIO	PC+LD1			LDT (3751 LVW-850	NOX FLEET STD NMOG+NO 751 LVW-8500 MDV (10 + MDPV (g/mi) GVW		
*	*		1.10	*		0.086			0.101		*	

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

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BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 3074 day of June 2016.

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Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS	(FTP	, HWFET, 50°F, 20°F))
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CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

FUEL TYPE

1000		NMOG+NOx (g/mi)						(g/i	O mi)		Ox mi)	HC (mg			M mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD				
FTP@50K	*	*	*	*	*	*	*	*	*	*	*				
FTP@UL	GASOLINE- LEV3 E10	0.018	0.030	0.2	1.0	*	*	*	4	*	0.01				
50°F @4K	GASOLINE- LEV3 E10	0.041	0.060	0.3	1.0	*	*	*	8						

-5 0	FUEL TVDE	NMOG+N	NOx (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*	- Ho		
HWFET @ UL	GASOLINE-LEV3 E10	0.005	0.030		y sylvic to the	
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)		v v	0.1	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		1.		US06		SC03	}	CON	POSITE	
	FUEL TYPE	1	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
@ 41.C		STD	*	*	1. 1. 5. 1. 5	*	*	Contraction of the Contraction o	\$	* .c
		CERT	*	*	*	*	*	0.018	0.5	*
@ UL	GASOLINE- LEV3 E10	STD	*	*	*	*	*	0.103	4.2	*
		BIN					=	0.040		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE	VEHICLE	EVAPORA	TIVE TESTII	NG		
	FUEL TYPE	3DHS	S (g/test)	@ UL	2D	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HTKXR0115GCP	GASOLINE- LEV3 E10	0.2115	0.300	0.300	*	0.300	0.300	0.000	0.05
HTKXR0115GDP	GASOLINE- LEV3 E10	0.2115	0.300	0.300	*	0.300	0.300	0.000	0.05

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ORVR / FUI	ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL		FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K					
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
HTKXR0115GCP	TIER3 E10 REGULAR GASOLINE	0.001	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.0048	0.020			
HTKXR0115GDP	TIER3 E10 REGULAR GASOLINE	0.001	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.0056	0.020			

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV: TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor, PMS: PM sensor, RDQS: reductant quality sensor, NH3S: ammonia sensor, EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS; automated manual-selectable transmission; OT: other transmission

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
MAZDA	MAZDA3	PC	2.0	М6	HTKXR0115GCP	1	P	PZEV
MAZDA	MAZDA3	PC	2.0	SA6	HTKXR0115GCP	1	P	PZEV
MAZDA	MAZDA3	PC	2.0	М6	HTKXR0115GDP	1	P	PZEV
MAZDA	MAZDA3	PC	2.0	SA6	HTKXR0115GDP	1	P	PZEV